POLYCASA® SAN

Styrene Acrylonitrile

Polycasa

Message:

Polycasa SAN is the trade name for extruded Styrene Acrylonitrile (SAN) copolymer sheets from Polycasa.
The SAN programme offers solutions to both indoor and outdoor applications. (For external use, Polycasa SAN UVP, incorporating UV protection should be used.)
As a result of the extrusion and lamination process, Polycasa can offer a variety of designs, as well as the glass clear version.
CHARACTERISTICS
Good optical properties and a brilliant surface.
Easy to handle and vacuum form.
Show a very good dimensional stability.
Very good chemical resistance: to most fats, dilute acid solutions, oils and common bleaching agents, as well as some solvents and weak alkaline solutions.
Can be used in - and outdoor (in UVP version) and are resistant to temperature fluctuations.
Can be used in contact with foodstuffs (non UV version).
APPLICATIONS
Industrial (door) glazing.
Covers for foodstuffs.
Covers for office equipment.
Screen printing.
Advertising signs.
Fittings for shops and exhibitions.
Displays.
Flat or curved shower screens.
Greenhouse glazing.
Room dividers.

General Information	
Features	Acid Resistant
	Food Contact Acceptable
	Good Chemical Resistance
	Good Dimensional Stability
	Oil Resistant
	Opticals
	Outstanding Surface Finish
	Solvent Resistant
Uses	Bathroom Accessories
	Business Equipment
	Displays
	Fittings
	Glazing
	Industrial Applications
	Office Automation Equipment
	Outdoor Applications
	Protective Coverings

	Screen Printing
	Windows & Doors

Appearance	Clear/Transparent
	Colors Available
	White

Forms	Sheet
Processing Method	Extrusion

Physical	Nominal Value	Unit	Test Method
Density	1.08	g/cm³	ISO 1183
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	83		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (4.00 mm)	3900	MPa	ISO 527-2
Tensile Stress (4.00 mm)	60.0	MPa	ISO 527-2
Tensile Strain (Break, 4.00 mm)	1.8	%	ISO 527-2
Flexural Modulus (4.00 mm)	3750	MPa	ISO 178
Flexural Stress (4.00 mm)	105	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength	13	kJ/m²	ISO 179
Notched Izod Impact Strength	1.3	kJ/m²	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	101	°C	ISO 75-2/B
1.8 MPa, Unannealed	98.0	°C	ISO 75-2/A
Vicat Softening Temperature	106	°C	ISO 306/B
CLTE - Flow	5.0E-5 to 7.0E-5	cm/cm/°C	DIN 53752
Specific Heat	1380	J/kg/°C	ASTM D2766
Thermal Conductivity	0.17	W/m/K	DIN 52612
Maximum Service Temperature	85.0		
Refractive Index	1.5700		ISO 489
Degradation Temperature	> 280	°C	
Sheet Temperature - Forming	165 to 190	°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+14	ohms·cm	IEC 60093
Optical	**Nominal Value**	**Unit**	**Test Method**
Transmittance	86.0	%	DIN 5036

Recommended distributors for this material

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